











Electronic, Electric, Analogue and IO-Link Sensors P8S Series

PDE2815TCUK





ENGINEERING YOUR SUCCESS.



## **Important**

Before attempting any external or internal work on the cylinder or any connected components, make sure the cylinder is vented and disconnect the air supply in order to ensure isolation of the air supply.



## **Note**

All technical data in this catalogue are typical data only.

Air quality is essential for maximum cylinder service life (see ISO 8573).



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#### **P8S Electronic and Reed Sensors**

The P8S Series magnetic cylinder sensor enables quick, precise and contactless sensing of the piston's position in cylinders. It is easy to mount, can be used in numerous applications and offers an outstanding price-performance ratio.



#### **Product Overview**

As the term magnetic switch suggests, these are operated by magnetic fields; another description widely used is magnetic "SENSOR". As our eyes sense change of light, our ears sense the change of sound, magnetic sensors / switches sense the change of magnetic flux in pneumatic and hydraulic cylinders. When magnetic sensors sense a magnetic field it will give a switching signal, through a control circuit, allowing sensing or control operation to be achieved.

Because of the characteristics of magnetic sensors they can sense a change of magnetic field relative to the position of the magnet, such as in a pneumatic or hydraulic cylinder, whereby the magnet is attached to a moving piston and thus the position of the moving part (ie Piston) can be detected.

The magnet is mounted on the piston of the cylinder and thus moves with the piston.

The magnetic sensor (switch) is fixed either directly to the cylinder or with an additional mounting bracket. When the piston (magnet) moves to the position under a magnetic sensor, the switch

will operate due to the change of the magnetic field and give a switching signal.

Thus the position of the piston can be identified and a resulting signal generated to continue the sequence of a circuit.

Magnetic sensors available can be classified into two different groups, they are sensors with contacts which are called mechanically operated or reed sensors and the other type is sensors without contacts and are called solid state type or electronic.

Parker P8S Series sensors are suitable for use with a large range of Sensors. They can either be inserted directly into the cylinder tube extrusion or mounted using additio

nal brackets. For direct mounting the sensor is positioned within the cylinder sensor groove, offering mechanical protection, then securely clamped into postion by a simple turn of a screw. For other cylinder versions there are a number of optional

sensors brackets that clamp to the cylinder and offer other mounting positions. To easy installation there

are several cable lengths available with either M8 connnector or flying lead. The electronic sensors are "Solid State", i.e. they have no moving parts. They are provided with short-circuit protection and transient protection as standard. The built-in electronics make the sensors suitable for applications with high on and off switching frequency where long service life is required.

Please note that for low temperature applications sensors are normally specified for full performance down to -30°C only. High temperature cylinders do not have a magnetic piston and therefore cannot be used with sensors.





## **Technical Data**

Square body design, insert straight in T-slot, screw 1/4 turn

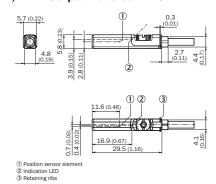
	Electronic PNP   NPN	Electric Reed		
Cylinder type:	Profile	with T-slot		
Cylinder type with adaptor:	Profile with S-slot (doveta	ail)   Tie rods   Round cylinders		
Installation:	Quarter turn, fixed by allen key 2.5 mm or flathead screwdriver			
	29.5 mm 10 - 30 V DC	29.5 mm 5 - 30 V AC/DC		
Housing length:	24 mm NAMUR	29.5 mm 5 -120 V AC/DC		
	29.5 mm ATEX	32.5 mm 5 - 230 V AC/DC		
Output Type:	PNP   NPN	Reed		
Switching (on/off) switching frequency:	± 1,000 Hz	± 400 Hz		
Output Function:	Normally Open (NO)   Normally Closed (NC) 3-wire	Normally Open (NO)   Normally Closed (NC) 2-wire		
Output I unotion.		Normally Open (NO) 3-wire		
Enclosure rating:		IP67		
	IP67 (NAMUR ATEX)			
Supply Voltage	10 to 30 V DC	51 00   51 400   51 000 V AQ/DQ Q		
Supply Voltage:	8.2 to 20 V DC (NAMUR 1GD)  10 to 26 V DC (ATEX 3GD)	5 to 30   5 to 120   5 to 230 V AC/DC 2-wire, 3-wire depending on type		
	<= 8 mA	-		
Power consumption:	<= 10 mA (NAMUR, ATEX)	-		
	<= 2 V	<= 3.5 V 2-wire   <= 0.1 V 3-wire		
Voltage drop:	<= 2.2 V (NAMUR, ATEX)	-		
	<= 100 mA	<= 100 mA 3-wire		
Continuous output current la:	<= 60 mA (NAMUR)   <= 50 mA (ATEX)	<= 500 mA (DC)   <= 300 mA (AC)		
Switching capacity:	00 IIIA (IVAIVIOII)	<= 6 W		
Protection class:		III   II 2-wire depending on type		
FIOLECTION Class.		III   II 2-wire depending on type		
	2.6 to 3.3 mT	2.1 to 3.4 mT		
Response sensitivity:		2.1 to 3.4 iiii		
	2.8 mT (NAMUR, ATEX) - 10 mm			
Overrun distance:		OTHITI		
	9 mm (NAMUR, ATEX) <= 0.8 mT	<u> </u>		
Hysteresis:		<u>-</u>		
B	<= 0.5 mT (NAMUR, ATEX)			
Repetability:		: 0.1 mT		
Reverse polarity protection:	Yes	No 2-wire		
0	- -	Yes 3-wire		
Short circuit protection:	Yes	<del>-</del>		
Power-up pulse protection:	Yes (NAMUR, ATEX)	-		
Ambiant operating temperature range:		le)   -30 to +70°C (PVC cable)		
		GD)   -20 to +50°C (ATEX 3GD)		
Shock and vibration resistance:		10 55 Hz, 1 mm		
EMC:	<u> </u>	to EN 60947-5-2		
International standard:		oHs   Ex   IEC   IEC Ex		
Housing material:	<u> </u>	olyamid PA12		
Screw material:		nless steel		
Cable material:	PUR (Polyurethane)	PVC (Polyvinyl Chloride)		
Conductor cross-section:	1 7	nm² depending on type (NAMUR, ATEX)		
Indication LED colour:	Yellow, no	LED reed NC		
Connector:	M8R (knurled nu	ts)   None (Flying lead)		



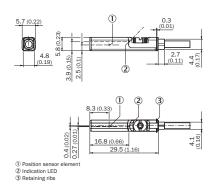


# **Dimensions in mm (inch)**

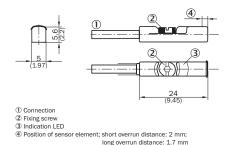
## PNP, NPN Output 10 to 30 V DC



# Reed Output 5 to 30 V AC/DC



## NAMUR 1G, 1D



## Installation

Square body design, Insert straight in T-slot, screw 1/4 turn

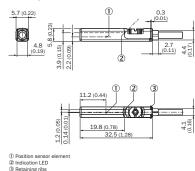
# With Adaptor in S-Dovetail Slot



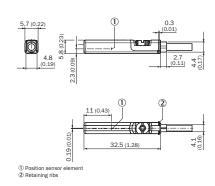


The adaptor is delivered with each sensor.

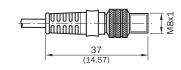
# Reed Output 5 to 230 V AC/DC



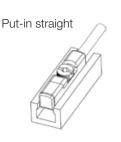
# Reed Output 5 to 120 V AC/DC



## **Connector M8R**



# Without Adaptor directly in T-Slot





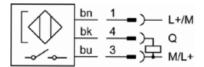




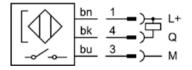


# Connection type and diagram

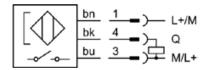
## **PNP NO**



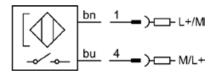
## **NPN NO**



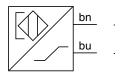
## Reed NO 3-wire



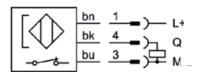
#### Reed NO 2-wire



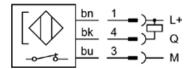
## NAMUR NO ATEX 1G, 1D



## PNP NC

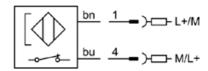


## **NPN NC**

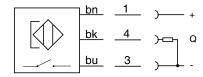


bn: brown bk: black bu: blue Q: load M: Mass L+: Power

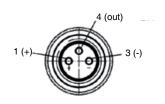
## Reed NC 2-wire



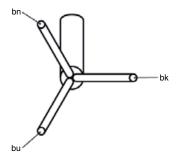
## PNP NO ATEX 3G, 3D



## Pin assignment, M8 with knurled nut



## Flying leads



**-**Parker



## **Ordering Data**

Square body design, Insert straight in T-slot, screw 1/4 turn

Output, Function, Cable & Supply Voltage	Order Code	Weight [g]	For Product Serie
With flying leads, PUR cable IP67			
Electronic PNP-NC, with LED, 3-wire, 3 meter, 10-30 V DC	P8SAGQFAX	35	All Series
Electronic PNP-NC, with LED, 3-wire, 10 meter, 10-30 V DC	P8SAGQFDX	105	All Series
Electronic PNP-NO, with LED, 3-wire, 3 meter, 10-30 V DC	P8SAGPFAX	35	All Series
Electronic PNP-NO, with LED, 3-wire, 10 meter, 10-30 V DC	P8SAGPFDX	105	All Series
Electronic NPN-NC, with LED, 3-wire, 3 meter, 10-30 V DC	P8SAGMFAX	35	All Series
Electronic NPN-NC, with LED, 3-wire, 10 meter, 10-30 V DC	P8SAGMFDX	105	All Series
Electronic NPN-NO, with LED, 3-wire, 3 meter, 10-30 V DC	P8SAGNFAX	35	All Series
Electronic NPN-NO, with LED, 3-wire, 10 meter, 10-30 V DC	P8SAGNFDX	105	All Series
Electric Reed-NO, with LED, 3-wire, 3 meter, 5-30 V AC/DC	P8SAGSFAX	35	All Series
Electric Reed-NO, with LED, 3-wire, 10 meter, 5-30 V AC/DC	P8SAGSFDX	105	All Series
Electric Reed-NO, with LED, 2-wire, 3 meter, 5-30 V AC/DC	P8SAGRFAX	35	All Series
Electric Reed-NO, with LED, 2-wire, 10 meter, 5-230 V AC/DC	P8SAGRFDX2	105	All Series
Electric Reed-NC, No LED, 2-wire, 10 meter, 5-120 V AC/DC	P8SAGEFRX1	105	All Series
Electric Reed-NC, No LED, 2 wire, 10 meter, 5-30V AC/DC	P8SSAGEFRX	105	All Series
With flying leads, PVC cable IP67			
Electric Reed-NO, with LED, 3-wire, 3 meter, 5-30 V AC/DC	P8SAGSFLX	35	All Series
Electric Reed-NO, with LED, 2-wire, 3 meter, 5-120 V AC/DC	P8SAGRFLX1	35	All Series
Electric Reed-NO, with LED, 2-wire, 3 meter, 5-230 V AC/DC	P8SAGRFLX2	35	All Series
Electronic PNP-NC, with LED, 3-wire, 3 meter, 10-30 V DC	P8SAGQFLX	35	All Series
Electronic PNP-NO, with LED, 3-wire, 3 meter, 10-30 V DC	P8SAGPFLX	35	All Series
Electronic PNP-NO, with LED, 3-wire, 10 meter, 10-30 V DC	P8SAGPFTX	105	All Series
Electric Reed-NO, with LED, 2-wire, 10 meter, 5-120 V AC/DC	P8SAGRFTX1	105	All Series
Electric Reed-NO, with LED, 3-wire, 10 meter, 10-30 V AC/DC	P8SAGSFTX	105	All Series
With M8 knurled screw, PUR cable IP67			
Electronic PNP-NC, with LED, 3-wire, 0.3 meter, 10-30 V DC	P8SAGQCHX	15	All Series
Electronic PNP-NO, with LED, 3-wire, 0,3 meter, 10-30 V DC	P8SAGPCHX	15	All Series
Electronic NPN-NC, with LED, 3-wire, 0,3 meter, 10-30 V DC	P8SAGMCHX	15	All Series
Electronic NPN-NO, with LED, 3-wire, 0,3 meter, 10-30 V DC	P8SAGNCHX	15	All Series
Electric Reed-NO, with LED, 3-wire, 0,3 meter, 5-30 V AC/DC	P8SAGSCHX	15	All Series
Electric Reed-NC, No LED, 2-wire, 0,3 meter, 5-30 V AC/DC	P8SAGECNX	15	All Series
Electric need-ing, ind LED, 2-wire, 0.3 meter. 3-30 v AG/DG		15	All Series

Electronic PNP-NO, with LED, 3-wire, 3 meter, 10-26 V DC, PUR	P8SAGPFAXS	35	ATEX Series 3G, 3D
NAMUR-NO, with LED, 2-wire, 5 meter, 8,2-20 V DC, PVC	P8SAGDFMXW *	55	ATEX Series 1G, 1D
NAMUR-NO, with LED, 2-wire, 10 meter, 8,2-20 V DC, PVC	P8SAGDFTXW *	105	ATEX Series 1G, 1D

## Note:

-30 to +80 °C (PUR cable) I -30 to + 70 °C (PVC cable) I -25 to +80 °C (NAMUR 1GD I -20 to +50 °C (ATEX 3GD) All sensors are with an adaptor for S-dovetail Parker type OSP grooves.



<sup>\*</sup> with an aluminium adaptor







#### **P8S Continuous Position Sensors**

Many applications require more than just end of stroke sensing of an actuator, but traditional methods of continuous sensing are expensive to implement. Parker's CPS (Continuous Position Sensing) series of the P8S sensor family enables quick, precise and contactless continuous position sensing of a piston in standard Sensors. This offers an outstanding price/performance ratio.

#### **Product Overview**

P8S Continuous Position Sensors detect continuously the position of the piston of pneumatic cylinders using a direct, non-contact technology along the length of the sensors, measuring ranges from 32 to 256 mm. They can be mounted in T-slots without the need for additional accessories for cylinders built with common T-slot dimensions. Mounting on other cylinder types ie round cylinders type is possible with adaptors. The sensor settings can be adjusted during

installation and during operation later on, using a teach button or, depending on the variant, using IO-Link.

The sensors continuously supply data via analogue outputs or IO-Link. Analogue position sensors, for current or voltage, have a voltage output of 0 V ... 10 V as well as a current output of 4 mA ... 20 mA. It enables flexible machine concepts making it possible to solve tasks in areas such as quality monitoring and process control in conjunction with pneumatic cylinders. This continuous transfer of position data upgrades the functionality of the pneumatic cylinders by making them more intelligent and as a result, more versatile.

#### **Technical Data**

Technical Data	
Cylinder type:	Profile with T-slot
Installation:	Drop in, fixed by allen key 1.5 mm
Measuring range:	32 to 256 mm depending on type 1)
Housing length:	45 to 269 mm depending on type
Output Function:	Analogue   IO-Link
Analogue output (voltage):	0 to 10 V   -
Analogue output (current):	4 to 20 mA   -
Teach-in:	Yes
Enclosure rating:	IP 67 (according to EN 60529)
Supply Voltage: 2)	15 to 30 V DC
Power consumption: 3)	<= 22 mA (analogue)   <= 25 ma (IO-Link)
Max load resistance: 4)	<= 500 Ω
Min load resistance: 5)	<= 2 kΩ
Protection class:	III
Time delay before availability:	1.5 s
Required magnetic field sensitivity:	3 mT / 2 mT (Analogue)   3 mT (IO-Link)
Resolution: <sup>6)</sup>	0.03% full scale range (max >=0.05 mm)
Linearity error: 7)	0.3 mm
Repeat accuracy: 8)	0.06% full scale range (>= 0.1 mm)
Sampling rate: 9)	1 ms
Indication LED colour:	Yellow (Analogue)
Reserve polarity protection:	Yes (Analogue)
Short circuit protection:	Yes (Analogue)
Ambiant operating temperature range:	-20 to +70 °C (PUR cable)
Shock and vibration resistance:	30 g 11 ms / 10 55 Hz, 1 mm
EMC: 10)	According to EN 60947-5-2
International standard:	CE   C UL US   CCC (not applicable)   RoHs   IO-Link
UL file No:	On request
Housing material:	Plastic polyamid PA12
Screw material:	Stainless steel
Cable material:	PUR (Polyurethane)
Conductor cross-section:	0.08 mm <sup>2</sup>
Connector:	M12 (IO-Link) or M8 (Analogue)





<sup>1) ± 1</sup> mm

<sup>&</sup>lt;sup>2)</sup> Reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

<sup>3)</sup> Without load

<sup>4)</sup> Power output, at 24 V

<sup>5)</sup> Voltage output

<sup>6)</sup> FSR: Full Scale Range;

max. measuring range. 
<sup>7)</sup>At 25 °C, linearity error (maximum deviation) depending on response curve and minimal deviation function.

<sup>&</sup>lt;sup>8)</sup> At 25 °C, repeatability magnet movement in one direction.

<sup>9)</sup> Only in standard mode, not in IO-Link mode.

<sup>&</sup>lt;sup>10)</sup> The analogue measured value can deviate under transient conditions.



## Continuous Position Sensing

Analogue signal or IO-Link communication for linear cylinders many applications require more than just end of stroke sensing of an actuator, but traditional methods of continuous sensing are expensive and difficult to implement. Parker's CPS series of the P8S sensor family enables quick, easy, precise, and contactless position sensing of a piston. This can be installed on a standard linear actuator and offers an outstanding price to performance ratio.

## **Product Features:**

Continuous position sensing

- IO-Link communication with M12 connector
- No modification to the actuator
- Analogue version with M8 connector
- 5 sizes with sensing ranges from 32 mm to 256 mm
- IP67 design suitable for any industrial application
- · Yellow teach button for easy set-up

### **Technical specification:**

1 ms sampling rate 0.03% full scale resolution 0.06% full scale repeatability 0.3 mm Linearity error

#### How it works:

The CPS product detects the position of an actuator via the magnet on the piston. The sensor settings can easily be adjusted during installation using the yellow teach button or during operation over the IO-Link communication. This upgrades the functionality of the pneumatic actuator by making it more intelligent and versatile in support of the Industry 4.0 initiative.

### How it connects:

Analogue version has a M8 connector and a voltage output of 0-10V as well as a current output of 4-20mA. IO-Link version has a M12 connector and transmits position via 2 bytes of process input data and also allows for parameter control of measuring range and locking of the teach button. It can be controlled by Class A or Class B IO-Link Masters.

#### How it installs:

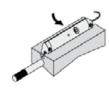
The Parker CPS requires the use of a magnetic piston. The product will ft T-slot cylinders without any additional mounting hardware.

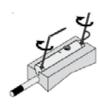
## Without Adaptor:

Direct drop-in T-slot T-slot dimensions [mm  $\pm$  0.1]



- 1) Pivot sensor into the slot
- 2) Teach the CPS unit the desired measuring range
- 3) Tighten set screws

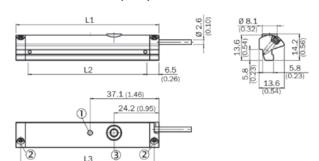








## Dimensions in mm (inch)



	Order Code				
L1	L2 *	L3	Analogue	IO-Link	
45	32	40	P8SAGACHA	P8SAGHMHA	
77	64	72	P8SAGACHB	P8SAGHMHB	
141	128	136	P8SAGACHD	P8SAGHMHD	
205	192	200	P8SAGACHF	P8SAGHMHF	
269	256	264	P8SAGACHH	P8SAGHMHH	

<sup>\*</sup>L2 equal to the measuring range

- ① Function indicator
- ② Fixing screw ③ Teach-in button

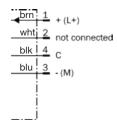
#### Note:

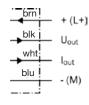
PUR cable with M12 (IO-Link) or M8 (Analogue) male connector knurled nut, 4-pin, 0,3 meter length. Please consult for measuring range 96, 160 & 224 mm.

## Connection type and diagram

## IO Link version

## Analogue version





PUR 0.3 meter length with M12 male connector knurled nut, 4-pin

PUR 0.3 meter length with M8 male connector knurled nut, 4-pin

## **Ordering Data** Drop in in T-slot

Output	Measuring length	Configuration Option	Order Code	Weight [g]	For product series
	32 mm		P8SAGACHA	16	
	64 mm		P8SAGACHB	26	
Analogue	128 mm	Teach Button	P8SAGACHD	46	With T-slot groove *
	192 mm		P8SAGACHF	66	_
	256 mm		P8SAGACHH	86	
	32 mm		P8SAG HMHA	20	
	64 mm	Teach Button or IO-Link parameter	P8SAGHMHB	30	
IO-Link	128 mm		P8SAGHMHD	50	With T-slot groove *
	192 mm		P8SAGHMHF	70	
	256 mm		P8SAGHMHH	90	

<sup>\*</sup> Required magnetic field sensitivity: 3mT / -2 mT (Analogue) / 3mT (IO-Link)

Note:

PUR cable with M12 (IO-Link) or M8 (Analogue) male connector knurled nut, 4-pin, 0,3 meter length. Please consult for measuring range 96, 160 & 224 mm.





## Mountings and brackets

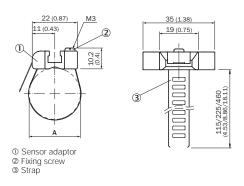
For products series	Oder code	Weight [g]
Tie rods, VRS/VRA	P8S-TMA0X	65
Tie rods, P1F-T Ø 32-100	P8S-TMA07	10
Tie rods, P1F-T Ø 125-320	P8S-TMA08	32
T-Slot OSP Ø 10	8872FIL	3
T-Slot P Series Ø 16	8865FIL	4
T-Slot P Series Ø 25-80	8866FIL	5
Round cylinder Ø10-25	P8S-TMC01	27
Round cylinder Ø 32-63	P8S-TMC02	29
Round cylinder Ø 80-125	P8S-TMC03	32
S-Dovetail OSP, pack of 10	P8S-TMA09	10

Ambient temperature -30 to +80 °C

All mountings can be moved on the cylinder body before screwing in place and then putting sensors in the slots.

## Dimensions in mm (inch)

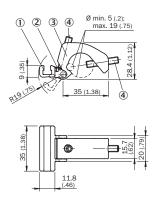
# P8S-TMC01, 02 & 03



Oder code	A [mm]	
P8S-TMC01	8 to 25	Clamping ring in nickel silver,
P8S-TMC02	32 to 63	screw in stainless steel, sensor
P8S-TMC03	80 to 130	mounting zinc diecast

### P8S-TMA0X

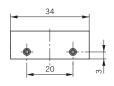
(Zinc diecast, zinc plated screws.)

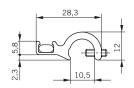


- Sensor adaptor with T-Slot
- Fixing for cable  $< \emptyset$  3.2 mm (0.126 inch) Cylinder adaptor ② ③
- Mounting screws M5

## P8S-TMA07

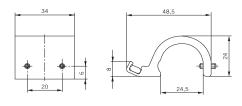
(anodised aluminium, zinc plated screws) Tie-Rods Cylinders Ø 32 to 100 mm





## P8S-TMA08

(anodised aluminium, zingued screws) Tie-Rods Cylinders Ø 125 to 320 mm







# Male connectors for connecting cables

Cable connectors for producting your own connecting cables.

The connectors can be quickly attached to the cable without special tools. Only the outer sheath of the cable is removed.

The connectors are available for M8 screw connector and meet protection class IP65.

# **Technical Data**

Operating voltage:	max. 32 V AC/DC
Opertaing current per contact:	max. 4 A
Connection cross section:	0.25 0.5 mm² (conductor diameter min 0.1 mm)
Protection class:	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range:	- 25 + 85°C

Connector	Weight [kg]	Order Code
M8 screw connector		P8CS0803J
M12 screw connector	0.022	P8CS1204J



# Cables to extend cable sensor lengths with M8\*

Description	Order Code	Weight [g]	For Product Series
Cable flex PVC 3 meter with 8mm snap-in connector / flying leads	9126344341	70	P8S Sensors with M8
Cable flex PVC 10 meter with 8mm snap-in connector / flying leads	9126344342	210	P8S Sensors with M8
Cable PUR 3 meter with 8mm snap-in femelle connector / flying leads	9126344345	70	P8S Sensors with M8
Cable flex PUR 10 meter with 8mm snap-in connector / flying leads	9126344346	210	P8S Sensors with M8
Cable PVC 2.5 meter with M8 screw connector / flying leads	KC3102	60	P8S Sensors with knurled M8
Cable PVC 5 meter with M8 screw femelle connector / flying leads	KC3104	120	P8S Sensors with knurled M8

<sup>\*</sup>Note: not applicable for P8S CPS Sensors as no cable available





# **Pneumatic sensor for Tie-Rods Cylinders**

An ideal solution where a direct pneumatic signal is wanted from a cylinder sensor to a pneumatic control system, for example. This could be a machine or device in which only compressed air is available, and an electricity supply to normal cylinder sensors would involve serious problems or considerable expense.

#### **Function:**

Non-contacting sensing of a pneumatic cylinder, triggering an output signal (conn. 2) from the integrated 3/2 NC valve, which is activated by a magnetic field or iron core and has a return spring. If more than one sensor is used with a cylinder there must be a distance of at least 20 mm between sensors to prevent them influencing each other.

To avoid interference, there must be a minimum spacing of 15 mm to steel details.

The outlet (conn. 3) must not be blocked or restricted as this can impair the function of the sensor.

The sensor is fastened to the cylinder using the special sensor fixing.



Working pressure: min 2 to max 6 bar Temperature: -15 to +60 °C

Air quality: 3.4.3 to ISO 8573-1 (must be oil free)

Function: 3/2 NC valve 40 NI per minute Flow:

for plastic pipe with 2,5-3 mm Connection:

internal diameter Activation distance: for magnet: min 9 mm Activation distance: for Fe: approx. 2 mm

+/- 0.2 mm Repetition accuracy:

max 1 m/s (depends on magnetic Cylinder velocity:

field, interference from steel in environment, signal length requirement from control system....)

Distance between sensors: min 20 mm

Distance from sensor

to steel details: min 15 mm

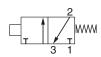
Fixing: with sensor fixing or with an M4 thread

in case

Sensing: non-contacting (also through a wall of

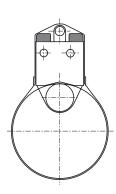
non-magnetic material)



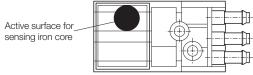


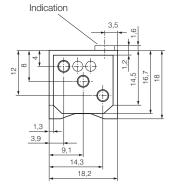
Description	Weight [kg]	Order code
Pneumatic sensor	0.02	P8S-A34X
Cylinder fixing bore Ø32 to Ø125 mm	0.01	P8S-AMA1

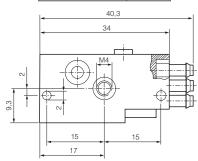
## Cylinder fixing - Tie-Rods Cylinders Ø 32 to 100 mm















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